WHAT IS CLAIMED IS:

	1.	A substantially pure or recombinant polypeptide comprising at least ten
5	contiguous ar	mino acids of the intracellular portion of SEQ ID NO: 2.
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	2.	The polypeptide of Claim 1, wherein:
		a) said polypeptide comprises at least 25 contiguous amino acids of the
		intracellular portion of SEQ ID NO: 2;
10		b) said polypeptide is recombinant, comprising the intracellular portion of SEQ
		ID NO: 2;
		c) said polypeptide further comprises at least ten contiguous amino acids of the
		non-intracellular portion of SEQ ID NO: 2;
		d) said polypeptide comprises at least 25 amino acids of the extracellular
15		portion of SEQ ID NO: 2;
		e) said polypeptide comprises the mature SEQ ID NO: 2; or
	•	f) said polypeptide is a substantially pure natural polypeptide.
		<u> </u>
	3.	The recombinant polypeptide of Claim 1, which:
20		a) consists of the mature sequence of Table 1;
	•	b) is an unglycosylated polypeptide;
		c) is from a human;
		d) comprises at least 40 contiguous amino acids of SEQ ID NO: 2;
		e) exhibits at least three nonoverlapping segments of at least fifteen contiguous
25		amino acids of SEQ ID NO: 2;
		f) is a natural polymorphic variant of SEQ ID NO: 2;
		g) has a length at least about 30 amino acids;
		h) exhibits at least two non-overlapping epitopes which are specific for a
20		primate DCRS5;
30		i) has a molecular weight of at least 30 kD with natural glycosylation;
		j) is a synthetic polypeptide;
		k) is in a sterile form;
		l) is in an aqueous or buffered solution;
2 5		m) is attached to a solid substrate;
35		n) is conjugated to another chemical moiety; or
		o) is physically associated with an IL-12Rβ1 polypeptide;

	4.	A composition of matter selected from:
		a) a substantially pure or recombinant polypeptide comprising at least two
		distinct nonoverlapping segments of at least six contiguous amino acids of
5		the intracellular portion of SEQ ID NO: 2;
		b) a substantially pure or recombinant polypeptide comprising at least 12
		contiguous amino acids of the intracellular poriton of SEQ ID NO:2; or
		c) a substantially pure natural sequence polypeptide comprising mature SEQ
•		ID NO: 2.
10	•	
	5.	The polypeptide:
		1) of Claim 4a, wherein:
		a) said distinct nonoverlapping segments:
		i) include one of at least twelve amino acids;
15		ii) include one of at least seven amino acids and a second of at least
		nine amino acids;
		iii) include a third distinct segment of at least six amino acids; or
		iv) comprise one of R355-L373, P378-L405, V407-D426, K428-D439
		P441-V452, I454-G460, I465-T587, or N592-606; or
20		b) said polypeptide further comprises at least two distinct nonoverlapping
		segments of at least six contiguous amino acids of the extracellular
		portion of SEQ ID NO: 2;
		2) of Claim 4b, wherein:
		a) said at least twelve contiguous amino acid segment comprises one of
25		R355-L373, P378-L405, V407-D426, K428-D439, P441-V452, I454-
		G460, I465-T587, or N592-606; or
		b) said polypeptide further comprises at least two distinct nonoverlapping
		segments of at least six contiguous amino acids of the extracellular
		portion of SEQ ID NO: 2; or
30		3) of Claim 4c, further comprising a purification or detection epitope.
	6.	The polypeptide of Claim 4, which:
	.	a) consists of the mature sequence of Table 1;
		b) is an unglycosylated polypeptide;
35		c) is from a human;
J J		d) comprises at least 40 contiguous amino acids of SEQ ID NO: 2;
		of comprises at least 40 contiguous attitito acids of SEQ ID 140. 2;

	ϵ	e) exhibits at least three nonoverlapping segments of at least fifteen contiguous
		amino acids of SEQ ID NO: 2;
	f) is a natural polymorphic variant of SEQ ID NO: 2;
	٤	s) has a length at least about 30 amino acids;
5	ł	exhibits at least two non-overlapping epitopes which are specific for a
		primate DCRS5;
	i) has a molecular weight of at least 30 kD with natural glycosylation;
	j) is a synthetic polypeptide;
	k	r) is in a sterile form;
10	1) is in an aqueous or buffered solution;
	r	n) is attached to a solid substrate;
	r	is conjugated to another chemical moiety; or
	C) is physically associated with an IL-12Rβ1 polypeptide.
		•
15	7. A	A composition comprising:
	а) a substantially pure polypeptide of Claim 4 combined with the IL-12Rβ1 protein; or
	ŀ	said polypeptide of Claim 4 and a carrier, wherein said carrier is:
		i) an aqueous compound, including water, saline, and/or buffer; and/or
20		ii) formulated for oral, rectal, nasal, topical, or parenteral administration.
		• Parameter Act Clark, rectain, represent, or parentered administration.
	8. A	A kit comprising a polypeptide of Claim 4, and:
	а) a compartment comprising said polypeptide;
	t	a compartment comprising an IL-12Rβ1 polypeptide;
25	c) a compartment comprising a p40, IL-B30, or p40/IL-B30 polypeptide; or
	d) instructions for use or disposal of reagents in said kit.
	9. A	A binding compound comprising an antigen binding site from an antibody,
	which specifical	ly binds to said intracellular portion of said polypeptide of Claim 1, wherein:
30	a) said binding compound is in a container;
	b) said polypeptide is from a human;
	c) said binding compound is an Fv, Fab, or Fab2 fragment;
	d) said binding compound is conjugated to another chemical moiety; or
	е) said antibody:
35		i) is raised against a peptide sequence of a mature polypeptide of Table 1;
		ii) is raised against a mature DCRS5;

		iii) is raised to a purified human DCRS5;
		iv) is immunoselected;
		v) is a polyclonal antibody; luorescent label.
		vi) binds to a denatured DCRS5;
5		vii) exhibits a Kd to antigen of at least 30 μM;
		viii) is attached to a solid substrate, including a bead or plastic membrane;
		ix) is in a sterile composition; or
		x) is detectably labeled, including a radioactive or fluorescent label.
10	10.	A kit comprising said binding compound of Claim 9, and:
		a) a compartment comprising said binding compound;
		b) a compartment comprising:
		i) a p40 polypeptide;
		ii) an IL-B30 polypeptide;
15		iii) a DCRS5 polypeptide; and/or
		iv) an IL-12Rβ1 polypeptide;
		c) a compartment comprising an antibody which binds selectively to:
		i) a p40 polypeptide;
		ii) an IL-B30 polypeptide;
20		iii) a DCRS5 polypeptide; and/or
		iv) an IL-12Rβ1 polypeptide; or
		d) instructions for use or disposal of reagents in said kit.
	11.	A method of producing an antigen:antibody complex, comprising contacting
25	under appropr	iate conditions a primate DCRS5 polypeptide with an antibody of Claim 9,
	thereby allowi	ing said complex to form.
	12.	The method of Claim 11, wherein:
		a) said complex is purified from other cytokine receptors;
30		b) said complex is purified from other antibody;
•		c) said contacting is with a sample comprising an interferon;
		d) said contacting allows quantitative detection of said antigen;
		e) said contacting is with a sample comprising said antibody; or
		f) said contacting allows quantitative detection of said antibody.
35		
	13.	A composition comprising:

a) a sterile binding compound of Claim 9, or

		b)	said binding compound of Claim 9 and a carrier, wherein said carrier is:
			i) an aqueous compound, including water, saline, and/or buffer; and/or
			ii) formulated for oral, rectal, nasal, topical, or parenteral administration.
5			
	14.	An	isolated or recombinant nucleic acid encoding said DCRS5 polypeptide of
	Claim 1, when	rein	said:
		a)	DCRS5 is from a human; or
		b)	said nucleic acid:
10		•	i) encodes an antigenic peptide sequence of Table 1;
			ii) encodes a plurality of antigenic peptide sequences of Table 1;
			iii) exhibits identity over at least thirteen nucleotides to a natural cDNA
			encoding said segment;
			iv) is an expression vector;
15			v) further comprises an origin of replication;
			vi) is from a natural source;
			vii) comprises a detectable label;
			viii) comprises synthetic nucleotide sequence;
			ix) is less than 6 kb, preferably less than 3 kb;
20			x) is from a primate;
			xi) comprises a natural full length coding sequence;
			xii) is a hybridization probe for a gene encoding said DCRS5; or
			xiii) is a PCR primer, PCR product, or mutagenesis primer.
25	15.	A	cell or tissue comprising said recombinant nucleic acid of Claim 14.
	16.	Th	e cell of Claim 15, wherein said cell is:
		a)	a prokaryotic cell;
		b)	a eukaryotic cell;
30		c)	a bacterial cell;
	•	d)	a yeast cell;
		e)	an insect cell;
		f)	a mammalian cell;
		g)	a mouse cell;
35		h)	a primate cell; or
		i)	a human cell.

	17.	A kit comprising said nucleic acid of Claim 14, and:
		a) a compartment comprising said nucleic acid;
		b) a compartment comprising a nucleic acid encoding:
5		i) a p40 polypeptide;
		ii) an IL-B30 polypeptide;
		iii) a DCRS5 polypeptide; and/or
		iv) an IL-12Rβ1 polypeptide;
		c) a compartment comprising:
10		i) a p40 polypeptide;
		ii) an IL-B30 polypeptide;
		iii) a DCRS5 polypeptide; and/or
		iv) an IL-12Rβ1 polypeptide;
		d) a compartment comprising an antibody which selectively binds to:
15		i) a p40 polypeptide;
		ii) an IL-B30 polypeptide;
		iii) a DCRS5 polypeptide; and/or
		iv) an IL-12Rβ1 polypeptide; or
		e) instructions for use or disposal of reagents in said kit.
20		
	18.	A nucleic acid which:
		a) hybridizes under wash conditions of 30 minutes at 30°C and less than 2M
		salt to the portion of SEQ ID NO: 1 encoding the intracellular portion; or
		b) exhibits identity over a stretch of at least about 30 nucleotides to the
25		intracellular poriton of a primate DCRS5.
	19.	The nucleic acid of Claim 18, wherein:
	17.	a) said wash conditions are at 45°C and/or 500 mM salt; or
		b) said stretch is at least 55 nucleotides.
30		by bara shoton is at reast 23 hacteriaes.
	20.	The nucleic acid of Claim 18, wherein:
		a) said wash conditions are at 55°C and/or 150 mM salt; or
		b) said stretch is at least 75 nucleotides.
35	21.	A method of modulating physiology or development of a cell some riving
33		A method of modulating physiology or development of a cell comprising
	contacting sa	iu ceii wiui.

		a) an antagonist of p40/IL-B30 which is a complex comprising:
		i) the extracellular portion of a primate DCRS5; and/or
		ii) the extracellular portion of a primate IL-12Rβ1;
		b) an antagonist of p40/IL-B30 which is an antibody which binds a complex
5		comprising:
		i) primate DCRS5; and/or
		ii) primate IL-12Rβ1;
		c) an antagonist of p40/IL-B30 which is an antibody which bonds to DCRS5;
		d) an antagonist of p40/IL-B30 which is an antibody to IL-12Rβ1;
10		e) an antagonist of p40/IL-B30 which is an antisense nucleic acid to DCRS5 or
		IL-12Rβ1; or
		f) an agonist of p40/IL-B30 which is an antibody which binds a complex
		comprising:
		i) primate DCRS5; and/or
15		ii) primate IL-12Rβ1.
	22.	The method of Claim 21, wherein said contacting is with an antagonist, and:
		a) said contacting is in combination with an antagonist to:
		i) IL-12;
20		ii) IL-18;
		iii) TNF; or
		iv) IFNγ; or
		b) said cell is from a host which:
		i) exhibits signs or symptoms of a chronic Th1 mediated disease;
25		ii) exhibits symptoms or signs of multiple sclerosis, rheumatoid arthritis,
		osteoarthritis, inflammatory bowel disease, diabetes, psoriasis, or sepsis;
		or
		iii) receives an allogeneic transplant.
30	23.	The method of Claim 21, wherein said contacting is with an agonist, and:
		a) said contacting is in combination with:
		i) IL-12;
		ii) IL-18;
		iii) TNF; or
35		iv) IFNγ; or
		b) said cell is from a host which:

- i) exhibits signs or symptoms of a chronic TH2 response;
- ii) suffers from a tumor, viral, or fungal growth;
- iii) receives a vaccine; or
- iv) suffers from an allergic response.